

GROUNDWATER MODELING UPDATE

Week of January 23, 2012

Current Activities

- Continuing to review technical information to identify data for model construction.
- Specifically, looking for information that will be needed to establish the main model layers, aquifer properties and property zones, groundwater levels, etc.
- Checking the possibility of using a modeling process called Telescopic Mesh Refinement (TMR). TMR is used to create a more refined model within the subregion of an existing larger model. If TMR is possible, the framework of the U.S. Geological Survey's basin-wide model (e.g., the 2002 McAda and Barroll Albuquerque basin model) could be imported and used in a new Kirtland/Ridgecrest well area model.

Upcoming Activities

- Make decision on TMR feasibility. Because of problems encountered when running the USGS basin-wide model, however, I have contacted a modeling software developer to determine if problems (related to model convergence) can be resolved. If not, will proceed with the usual steps for model construction.
- Continue to review information and data leading to model development.

Overall Current Project Status: Early Report Review and Pre-Workplan/QA Plan Development